

Patent Abstracts of Japan

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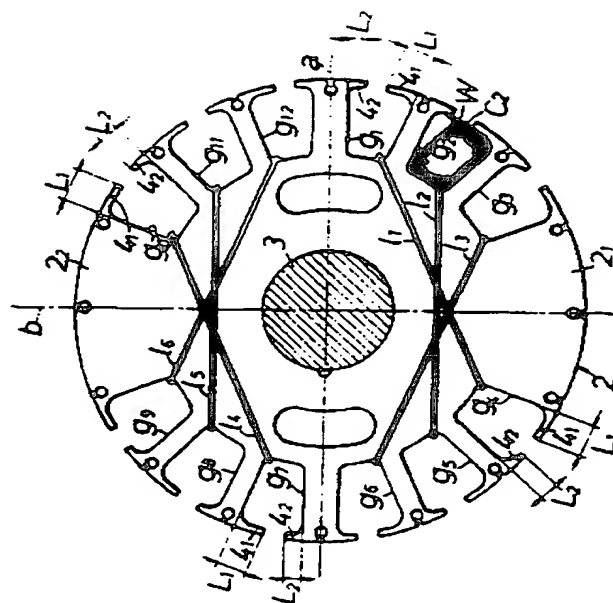
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TITLE : CYLINDRICAL ROTOR FOR ROTARY
 ELECTRIC MACHINE



ABSTRACT : PURPOSE: To increase the conductor space factor by forming the inward flanges at the opposite edges of openings of the specific coil holding grooves, thereby preventing the conductor from being removed from the groove.

CONSTITUTION: A cylindrical rotor has a cylindrical field core 2, a plurality of field coils wound in a plurality of coil holding grooves g_1 – g_{12} formed radially on the outer peripheral surface of the core 2, and a rotor shaft 3 engaged with the core 2. Inward flanges 4_1 , 4_2 are respectively formed at the edges of the opposite openings of two coil holding grooves such as coil holding grooves g_1 , g_4 for holding the common field coil, and the projecting length L_1 of the flange 4_1 disposed at the smaller arcuate side of the circumference of the core 2 is formed longer than that L_2 of the inward flange 4_2 disposed at the larger arcuate side. The inward flanges 4_1 , 4_2 of the same shape are also formed at the edge of the opposite openings of the two coil holding grooves for holding the other field coil.

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